



## QC ABSTRACT

**NAME OF WORK:** Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

| SL NO            | Item Of Work                      | Name of Test                            | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|------------------|-----------------------------------|-----------------------------------------|----------------------------|-------------------|--------------------------|---------------------------|
| <b>Materials</b> |                                   |                                         |                            |                   |                          |                           |
| 1                | Cement                            | Fineness by dry sieving                 | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Finess by Air permeability method       | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Density                                 | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Standard Consistency                    | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Initial Setting time                    | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Final Setting time                      | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Soundness (Le Chatelier's Method)       | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Compressive Strength                    | One Test                   |                   | 1                        | 1                         |
| 2                | Coarse aggregate(40 mm down size) | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Flakiness Index                         | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Elongation Index                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Bulk Density(Loose)                     | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Bulk Density(Compacted)                 | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
| 3                | Coarse aggregate(20 mm down size) | Flakiness Index                         | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Elongation Index                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Bulk Density(Loose)                     | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Bulk Density(Compacted)                 | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Aggregate crushing Value                | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Aggregate Impact Value                  | One Test                   |                   | 1                        | 1                         |
| 4                | Fine aggregate                    | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Material finer than 75 micron           | One Test                   |                   | 1                        | 1                         |
| 5                | Steel                             | Bend test                               | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Tensile Test                            | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Yield Test                              | One Test                   |                   | 1                        | 1                         |
|                  |                                   | ReBend test                             | One Test                   |                   | 1                        | 1                         |
| 6                | Precast (100mm)                   | Core Compressive Strength               | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Corrected Cylinder Compressive Strength | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Equivalent Cube Compressive Strength    | One Test                   |                   | 1                        | 1                         |
| 7                | Precast (250mm)                   | Core Compressive Strength               | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Corrected Cylinder Compressive Strength | One Test                   |                   | 1                        | 1                         |
|                  |                                   | Equivalent Cube Compressive Strength    | One Test                   |                   | 1                        | 1                         |
| 8                | RCC(M15)                          | Compressive Strength(7days and 28days)  | 1 set /1-5 cum             | 3.6               | 2                        | 2                         |
| 9                | RCC(M20)                          | Compressive Strength(7days and 28days)  | 6 sets /101-150 cum        | 121.47            | 12                       | 12                        |

Assistant Executive Engineer

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in / civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-07-11-13 Date: 19-05-23  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-05-23  
Sample Type : Birla Super 53grade  
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,  
IS 4031 (Part 4,5):1988  
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4  
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5  
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6  
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5  
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6  
Date of test : 17-05-23  
Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| Sl.No. | Physical properties                                        | Results     | Requirement as per IS 269:2015 |
|--------|------------------------------------------------------------|-------------|--------------------------------|
| 1      | Fineness by dry sieving (%)                                | 2.15        | -                              |
| 2      | Finess by Air permeability method (m <sup>2</sup> /kg.Min) | 282.2       | 225m <sup>2</sup> /kg. Min     |
| 3      | Density (gm/cc)                                            | 3.15        | -                              |
| 4      | Standard Consistency (%)                                   | 29.0%       | Not specified                  |
| 5      | Initial Setting time                                       | 185 minutes | Not less than 30 minutes       |
| 6      | Final Setting time                                         | 270 minutes | Not more than 600 minutes      |
| 7      | Soundness (Le Chatelier's Method)                          | 1.5mm       | Not more than 10 mm            |

\* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
Page 1/1

\*\*\*\*End of Report\*\*\*\*



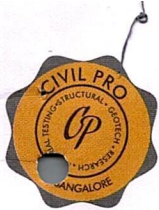
FOR CIVIL Pro.

R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-07-11-13 Date: 14-06-23  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-05-23  
Sample Type : Birla Super 53grade  
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988  
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6  
Date of test : 17-05-23  
Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| Compressive Strength |                     |                       |                                    |
|----------------------|---------------------|-----------------------|------------------------------------|
| Sl.No.               | Physical properties | Results               | Requirement as per IS 269:2015     |
| 1                    | 3 Days              | 29.5N/mm <sup>2</sup> | Not less than 27 N/mm <sup>2</sup> |
| 2                    | 7 Days              | 39.0N/mm <sup>2</sup> | Not less than 37 N/mm <sup>2</sup> |
| 3                    | 28 Days             | 54.5N/mm <sup>2</sup> | Not less than 53 N/mm <sup>2</sup> |

\* The results obtained are satisfactory as per standard requirements.

Note:

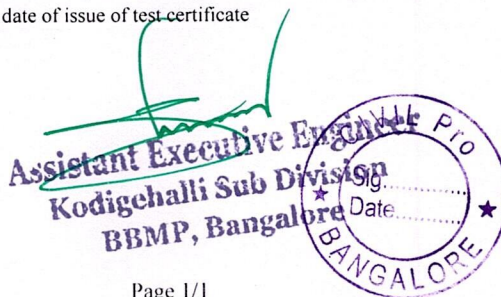
The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-07-11-13 Date: 19-05-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 16-05-23

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties

Date of test : 16-05-23

#### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 80 mm     | 0                      | 0                                 | 0.0                          | 100       | 100                         |
| 2          | 40 mm     | 374                    | 374                               | 2.5                          | 97.5      | 90-100                      |
| 3          | 20 mm     | 6738                   | 7112                              | 47.4                         | 52.6      | 30-70                       |
| 4          | 10 mm     | 5274                   | 12386                             | 82.6                         | 17.4      | 10-35                       |
| 5          | 4.75 mm   | 2081                   | 14467                             | 96.4                         | 3.6       | 0-5                         |
| 6          | Pan       | 533                    | 15000                             | 100.0                        | 0         | ---                         |

Page 1/2

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

**TEST REPORT ON COARSE AGGREGATES**

Lab ID

:

CP-2023-07-11-13

Date: 19-05-23

**PHYSICAL PROPERTIES**

| Sl.no | Tests                          | Result | Requirements as per IS:383-2016                                                              |
|-------|--------------------------------|--------|----------------------------------------------------------------------------------------------|
| 1     | Flakiness Index(%)             | 12.7   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2     | Elongation Index(%)            | 11.5   |                                                                                              |
| 3     | Specific Gravity               | 2.65   | —                                                                                            |
| 4     | Bulk Density(Loose) (Kg/l)     | 1.49   | —                                                                                            |
| 5     | Bulk Density(Compacted) (Kg/l) | 1.51   | —                                                                                            |
| 6     | Water Absorption(%)            | 0.25   | —                                                                                            |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 2/2

\*\*\*\*End of Report\*\*\*\*





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-07-11-13 Date: 18-05-23  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-05-23  
Sample Type/ Size : 20mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 16-05-23

#### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 40 mm     | 0                      | 0                                 | 0                            | 100       | 100                         |
| 2          | 20 mm     | 159                    | 159                               | 3.2                          | 96.8      | 90-100                      |
| 3          | 10 mm     | 2541                   | 2700                              | 54.0                         | 46.0      | 25-55                       |
| 4          | 4.75 mm   | 2117                   | 4817                              | 96.3                         | 3.7       | 0-10                        |
| 5          | Pan       | 183                    | 5000                              | 100                          | 0         | -                           |

Page 1/2  
Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





## TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2023-07-11-13

Date: 18-05-23

### PHYSICAL PROPERTIES

| Sl.no | Tests                          | Result | Requirements as per IS:383-2016                                                                                                                                                                                                               |
|-------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Flakiness Index(%)             | 11.6   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate                                                                                                                                                  |
| 2     | Elongation Index(%)            | 14.8   |                                                                                                                                                                                                                                               |
| 3     | Specific Gravity               | 2.62   | —                                                                                                                                                                                                                                             |
| 4     | Bulk Density(Loose) (Kg/l)     | 1.50   | —                                                                                                                                                                                                                                             |
| 5     | Bulk Density(Compacted) (Kg/l) | 1.55   | —                                                                                                                                                                                                                                             |
| 6     | Water Absorption(%)            | 0.28   | —                                                                                                                                                                                                                                             |
| 7     | Aggregate crushing Value(%)    | 26.6   | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8     | Aggregate Impact Value(%)      | 24.3   | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface.                                                                                                   |

\* The results obtained are satisfactory as per standard requirements.

#### Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

**Assistant Executive Engineer**  
Kodigehalli Sub Division  
BBMP, Bangalore

Page 2/2  
\*End of Report\*



FOR CIVIL Pro.

**R KARTHIK RECHAN**  
Authorized Signature  
Quality Manager





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-07-11-13 Date: 18-05-23  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-05-23  
Sample Type : Fine Aggregate  
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)  
IS: 2386 :1963(Part - 1, 3) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
Date of test : 16-05-23

Total weight taken : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 |                 |                  |                 |
|-------|------------|-----------------------|----------------------------------|------------------------------|-----------|--------------------------------|-----------------|------------------|-----------------|
|       |            |                       |                                  |                              |           | Grading Zone I                 | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1     | 10 mm      | 0                     | 0                                | 0.0                          | 100.0     | 100                            | 100             | 100              | 100             |
| 2     | 4.75 mm    | 35                    | 35                               | 3.5                          | 96.5      | 90-100                         | 90-100          | 90-100           | 95-100          |
| 3     | 2.36 mm    | 172                   | 207                              | 20.7                         | 79.3      | 60-95                          | 75-100          | 85-100           | 95-100          |
| 4     | 1.18 mm    | 116                   | 323                              | 32.3                         | 67.7      | 30-70                          | 55-90           | 75-100           | 90-100          |
| 5     | 600 micron | 201                   | 524                              | 52.4                         | 47.6      | 15-34                          | 35-59           | 60-79            | 80-100          |
| 6     | 300 micron | 217                   | 741                              | 74.1                         | 25.9      | 5-20                           | 8-30            | 12-40            | 15-50           |
| 7     | 150 micron | 183                   | 924                              | 92.4                         | 7.6       | 0-10                           | 0-10            | 0-10             | 0-15            |
| 8     | Pan        | 76                    | 1000                             | 100.0                        | 0.0       | ---                            | ---             | ---              | ---             |

Result : The tested Sample Conforms to Grading Zone II

Page 1/2  
Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

### TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-07-11-13

Date: 18-05-23

#### PHYSICAL PROPERTIES

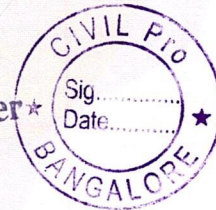
| Sl.no | Tests                            | Result | Requirements as per IS 383:2016                                                                                                             |
|-------|----------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Water Absorption(%)              | 1.94   | —                                                                                                                                           |
| 2     | Specific Gravity                 | 2.55   | —                                                                                                                                           |
| 3     | Material finer than 75 micron(%) | 7.6    | Uncrushed fine Aggregate Max 3%,<br>Crushed Fine aggregate Max 15%,<br>Mixed Fine aggregate Max 12%,<br>Manufactured Fine aggregate Max 10% |

\* The results obtained are satisfactory as per standard requirements.

#### Note:

The results pertain to the samples received and tested.  
All information furnished by Agency/Representative  
Any correction in the report will make this report invalid  
This report without prior written approval should not be reproduced or published in full or part.  
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 2/2

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST RESULTS OF STEEL

Lab ID : CP-2023-07-11-13 Date: 17-05-23  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-05-23  
Sample Type : Sunvik  
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.  
Date of test : 16-05-23

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress         | Tensile strength     | Elongation | Bend test    | Rebend test  |
|-------|--------------------------|---------------------|---------------------------|----------------------|----------------------|----------------------|------------|--------------|--------------|
|       |                          |                     | (mm)                      | (kg/m)               | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> ) | (%)        |              |              |
| 1     | Sunvik                   | Fe500               | 8                         | 0.391                | 512                  | 652                  | 20.0%      | Satisfactory | Satisfactory |
| 2     | Sunvik                   | Fe500               | 10                        | 0.616                | 528                  | 672                  | 20.0%      | Satisfactory | Satisfactory |
| 3     | Sunvik                   | Fe500               | 12                        | 0.888                | 544                  | 668                  | 20.0%      | Satisfactory | Satisfactory |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.

R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*End of Report\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-07-11-13 Date: 09-06-23

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-23

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 05/06/2023

Grade of Slab : M15

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area    | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---------|---------------------|----------------------|--------------------|--------------------|---------|--------------|---------------------------|-----------------------------------------|--------------------------------------|
|         |                     | (mm)                 | (mm)               | (kg)               | (Sq.mm) | (KN)         | (N/mm <sup>2</sup> )      | (N/mm <sup>2</sup> )                    | (N/mm <sup>2</sup> )                 |
| 1       | Cover Slab-1        | 77.51                | 100.48             | 1.116              | 4718    | 80.9         | 17.1                      | 15.9                                    | 19.9                                 |
| 2       | Cover Slab-2        | 77.48                | 100.52             | 1.122              | 4714    | 82.3         | 17.5                      | 16.2                                    | 20.3                                 |
| 3       | Cover Slab-3        | 77.63                | 100.51             | 1.118              | 4732    | 81.5         | 17.2                      | 16.0                                    | 20.0                                 |

\* The results obtained are satisfactory as per standard requirements.

### Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF PRECAST COVER SLAB

**Lab ID** : CP-2023-07-11-13 **Date:** 09-06-23

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

**Agency** : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

**Customer's Reference** : BBMP/EE/BTP/WO/134/2022-23

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 05-06-23

**Sample Type /Size** : Precast Cover Slab (250mm Thick)

**Reference to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

**Date of test** : 05/06/2023

**Grade of Slab** : M15

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area    | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---------|---------------------|----------------------|--------------------|--------------------|---------|--------------|---------------------------|-----------------------------------------|--------------------------------------|
|         |                     | (mm)                 | (mm)               | (kg)               | (Sq.mm) | (KN)         | (N/mm <sup>2</sup> )      | (N/mm <sup>2</sup> )                    | (N/mm <sup>2</sup> )                 |
| 1       | Cover Slab-1        | 77.36                | 250.42             | 3.113              | 4699    | 81.7         | 17.4                      | 16.2                                    | 20.2                                 |
| 2       | Cover Slab-2        | 77.25                | 250.13             | 3.146              | 4686    | 83.3         | 17.8                      | 16.5                                    | 20.7                                 |
| 3       | Cover Slab-3        | 77.47                | 250.18             | 3.110              | 4713    | 85.1         | 18.1                      | 16.8                                    | 21.0                                 |

\* The results obtained are satisfactory as per standard requirements.

### Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,  
Kodigehalli Sub Division  
BBMP, Bangalore  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 07/06/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 02-06-23  
Customer ID : Drain Bottom Raft Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 07/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 149.87 X<br>149.77 X<br>150.13 | 22446                | 8.582                | 409.0        | 18.2                 | 18.6                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 151.76 X<br>150.89 X<br>151.15 | 22899                | 8.723                | 433.7        | 18.9                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 151.80 X<br>151.53 X<br>149.98 | 23002                | 8.272                | 428.5        | 18.6                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

Page 1/1

\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 28/06/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 02-06-23  
Customer ID : Drain Bottom Raft Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 28/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 151.54 X<br>150.24 X<br>150.14 | 22767                | 8.180                | 533.2        | 23.4                 | 23.4                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 150.79 X<br>151.33 X<br>151.79 | 22819                | 8.520                | 520.1        | 22.8                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 150.83 X<br>150.49 X<br>149.06 | 22697                | 8.293                | 541.5        | 23.9                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
Page 1/1

\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 07/06/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 02-06-23  
Customer ID : Drain Bottom Raft Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 07/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 150.20 X<br>151.43 X<br>149.02 | 22745                | 8.445                | 421.2        | 18.5                 | 18.5                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 149.97 X<br>151.65 X<br>150.16 | 22744                | 8.378                | 422.2        | 18.6                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 151.09 X<br>151.56 X<br>149.43 | 22900                | 8.180                | 421.1        | 18.4                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.  
All information furnished by Agency/Representative  
Any correction in the report will make this report invalid  
This report without prior written approval should not be reproduced or published in full or part.  
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 28/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 149.65 X<br>150.65 X<br>151.96 | 22546                | 8.565                | 540.0        | 24.0                 | 23.1                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 151.74 X<br>149.84 X<br>149.81 | 22737                | 8.117                | 500.2        | 22.0                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 149.63 X<br>151.26 X<br>149.01 | 22633                | 8.793                | 528.8        | 23.4                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 07/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 149.63 X<br>150.68 X<br>151.03 | 22545                | 8.988                | 406.1        | 18.0                 | 18.0                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 149.44 X<br>149.36 X<br>150.74 | 22319                | 8.119                | 403.2        | 18.1                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 07/06/2023      | 151.84 X<br>149.30 X<br>149.80 | 22670                | 8.565                | 409.2        | 18.0                 |                              |

\* The results obtained are satisfactory as per standard requirements.

### Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 28/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/06/2023

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 150.69 X<br>150.03 X<br>151.97 | 22609                | 8.897                | 524.8        | 23.2                 | 23.2                         |
| 2       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 150.35 X<br>151.57 X<br>149.39 | 22789                | 8.169                | 520.4        | 22.8                 |                              |
| 3       | Drain Bottom Raft Concrete | M20               | 31/05/2023      | 28/06/2023      | 151.58 X<br>151.98 X<br>150.04 | 23037                | 8.998                | 539.8        | 23.4                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 10/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 149.98 X<br>150.33 X<br>149.29 | 22546                | 8.148                | 411.2        | 18.2                 | 18.7                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 150.05 X<br>149.12 X<br>150.30 | 22376                | 8.803                | 419.8        | 18.8                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 150.18 X<br>150.11 X<br>151.06 | 22544                | 8.772                | 428.1        | 19.0                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore



FOR CIVIL Pro.  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 01/07/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 05-06-23  
Customer ID : Drain Side Wall Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 01/07/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 149.88 X<br>151.86 X<br>150.69 | 22760                | 8.828                | 537.4        | 23.6                 | 23.2                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 149.14 X<br>151.22 X<br>149.97 | 22553                | 8.329                | 501.0        | 22.2                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 149.97 X<br>150.88 X<br>149.16 | 22629                | 8.118                | 536.3        | 23.7                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

*[Signature]*

*[Signature]*  
Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
Page 1/1  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
*[Signature]*  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 10/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 151.38 X<br>151.93 X<br>150.97 | 22998                | 8.870                | 428.8        | 18.6                 | 18.8                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 151.56 X<br>149.98 X<br>150.96 | 22732                | 8.396                | 429.6        | 18.9                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 149.70 X<br>150.89 X<br>149.03 | 22588                | 8.447                | 426.3        | 18.9                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

Page 1/1

\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 01/07/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 05-06-23  
Customer ID : Drain Side Wall Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 01/07/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 151.75 X<br>150.49 X<br>151.36 | 22837                | 8.352                | 541.6        | 23.7                 | 23.2                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 151.74 X<br>149.55 X<br>151.64 | 22694                | 8.398                | 506.3        | 22.3                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 151.54 X<br>150.73 X<br>149.18 | 22842                | 8.459                | 539.0        | 23.6                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore  
Page 1/1  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 10/06/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 05-06-23  
Customer ID : Drain Side Wall Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 10/06/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 150.68 X<br>150.08 X<br>151.21 | 22614                | 8.537                | 412.3        | 18.2                 | 18.4                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 149.35 X<br>149.06 X<br>150.38 | 22261                | 8.388                | 416.2        | 18.7                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 10/06/2023      | 149.90 X<br>150.49 X<br>149.23 | 22558                | 8.324                | 415.3        | 18.4                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP Bangalore

Page 1/1  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.

R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 01/07/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-06-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2023

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 151.30 X<br>149.12 X<br>150.51 | 22562                | 8.586                | 541.0        | 24.0                 | 23.3                         |
| 2       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 149.38 X<br>151.88 X<br>150.52 | 22688                | 8.354                | 512.5        | 22.6                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 03/06/2023      | 01/07/2023      | 149.24 X<br>150.25 X<br>149.21 | 22422                | 8.507                | 524.5        | 23.4                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

Page 1/1

\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

### TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 15/06/2023

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura

Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/134/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-06-23

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2023

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|---------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | RCC                 | M15               | 08/06/2023      | 15/06/2023      | 150.00 X<br>150.91 X<br>149.60 | 22638                | 8.922                | 272.7        | 12.0                 | 12.4                         |
| 2       | RCC                 | M15               | 08/06/2023      | 15/06/2023      | 151.12 X<br>151.28 X<br>150.81 | 22861                | 8.402                | 287.5        | 12.6                 |                              |
| 3       | RCC                 | M15               | 08/06/2023      | 15/06/2023      | 149.36 X<br>151.49 X<br>151.92 | 22626                | 8.804                | 287.0        | 12.7                 |                              |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP, Bangalore

Page 1/1

\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.

KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES





AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-11-13 Date: 06/07/2023  
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.  
Address : Kodigehalli Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and surrounding areas in ward No.11, Byatarayanapura  
Agency : Sri. Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032  
Customer's Reference : BBMP/EE/BTP/WO/134/2022-23  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 10-06-23  
Customer ID : RCC  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M15 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5  
Date of test : 06/07/2023

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|---------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | RCC                 | M15               | 08/06/2023      | 06/07/2023      | 151.42 X<br>149.93 X<br>152.00 | 22702                | 8.587                | 407.8        | 18.0                 | 17.7                         |
| 2       | RCC                 | M15               | 08/06/2023      | 06/07/2023      | 149.56 X<br>150.32 X<br>151.74 | 22482                | 8.118                | 400.2        | 17.8                 |                              |
| 3       | RCC                 | M15               | 08/06/2023      | 06/07/2023      | 150.85 X<br>149.40 X<br>151.60 | 22538                | 8.606                | 389.2        | 17.3                 |                              |

\* The results obtained are satisfactory as per standard requirements.

### Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer  
Kodigehalli Sub Division  
BBMP Bangalore

Page 1/1  
\*\*\*\*End of Report\*\*\*\*



FOR CIVIL Pro.  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES